

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2004/001036

## A. CLASSIFICATION OF SUBJECT MATTER

**IPC7: B23C 41/04 // B23C 1/00, B23C 3/00**

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

**IPC7: B23B, B23C, B23Q**

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

**SE,DK,FI,NO classes as above**

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## EPO-INTERNAL, WPI DATA, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 03008136 A1 (NOVATOR AB), 30 January 2003 (30.01.2003), figure 1, claim 1, abstract --	1-3
A	US 4934040 A (MANUEL C. TURCHAN), 19 June 1990 (19.06.1990), figure 1, abstract --	1-3
A	US 5971678 A (DAG G. LINDERHOLM), 26 October 1999 (26.10.1999), figure 1, abstract --	1-3
A	US 5536152 A (SADAO KAWAHARA ET AL), 16 July 1996 (16.07.1996), figure 1, abstract -- -----	1-3

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

5 October 2004

Date of mailing of the international search report

05-10-2004

Name and mailing address of the ISA/  
Swedish Patent Office  
Box 5055, S-102 42 STOCKHOLM  
Facsimile No. + 46 8 666 02 86

Authorized officer

Fredrik Strand/MP  
Telephone No. + 46 8 782 25 00

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2004/001036

WO	03008136	A1	30/01/2003	US	6663327 B	16/12/2003
				US	20030017017 A	23/01/2003
US	4934040	A	19/06/1990	AU	7754287 A	10/02/1988
				BR	8707414 A	01/11/1988
				CA	1282230 A,C	02/04/1991
				EP	0277968 A	17/08/1988
				JP	1500254 T	02/02/1989
				WO	8800507 A	28/01/1988
US	5971678	A	26/10/1999	AU	4810199 A	20/12/1999
				EP	1102653 A	30/05/2001
				JP	2002516761 T	11/06/2002
				WO	9962661 A	09/12/1999
US	5536152	A	16/07/1996	JP	3314562 B	12/08/2002
				JP	8159054 A	18/06/1996

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/SE 2004/001036

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: B23B 41/04 // B23C 1/00, B23C 3/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: B23B, B23C, B23Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE, DK, FI, NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## EPO-INTERNAL, WPI DATA, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 03008136 A1 (NOVATOR AB), 30 January 2003 (30.01.2003), figure 1, claim 1, abstract --	1-3
A	US 4934040 A (MANUEL C. TURCHAN), 19 June 1990 (19.06.1990), figure 1, abstract --	1-3
A	US 5971678 A (DAG G. LINDERHOLM), 26 October 1999 (26.10.1999), figure 1, abstract --	1-3
A	US 5536152 A (SADAO KAWAHARA ET AL), 16 July 1996 (16.07.1996), figure 1, abstract -----	1-3

 Further documents are listed in the continuation of Box C. See patent family annex.

\* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

15 November 2004

Date of mailing of the international search report

07-12-2004

Name and mailing address of the ISA/  
Swedish Patent Office  
Box 5055, S-102 42 STOCKHOLM  
Facsimile No. + 46 8 666 02 86

Authorized officer

Fredrik Strand/MP  
Telephone No. + 46 8 782 25 00

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/SE 2004/001036

WO	03008136	A1	30/01/2003	US	6663327	B	16/12/2003
				US	20030017017	A	23/01/2003
US	4934040	A	19/06/1990	AU	7754287	A	10/02/1988
				BR	8707414	A	01/11/1988
				CA	1282230	A,C	02/04/1991
				EP	0277968	A	17/08/1988
				JP	1500254	T	02/02/1989
				WO	8800507	A	28/01/1988
US	5971678	A	26/10/1999	AU	4810199	A	20/12/1999
				EP	1102653	A	30/05/2001
				JP	2002516761	T	11/06/2002
				WO	9962661	A	09/12/1999
US	5536152	A	16/07/1996	JP	3314562	B	12/08/2002
				JP	8159054	A	18/06/1996